

METHOD AND APPARATUS FOR GENERATING A DECENTRALIZED MODEL
ON A COMPUTER NETWORK

ABSTRACT OF THE DISCLOSURE

5 Generation of a decentralized model on a computer network comprises
generating data objects and/or function objects, publishing references to the data objects
and/or the function objects and subscribing to the data objects and/or the functions by
creating relationships between the data objects and/or the function objects through
referencing data objects within the function objects, thereby linking the data objects
10 and/or the function objects, wherein networks of linked data objects and/or function
objects emerge. The decentralized linked data objects and/or function objects are make
available for further linking with other data objects and/or function objects and
messages are sent to referencing data objects and/or function objects when referenced
data objects and/or referenced function objects change. The functions are solved when
15 the messages are received, thereby causing at least one of the referenced data to be
changed. The data objects and/or the function objects are stored in a distributed manner
across multiple computing devices on a computer network. The relationships between
the data objects and/or function objects are created without using a single coordinating
computing device, or are created using multiple coordinating computing devices on the
20 computer network.

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